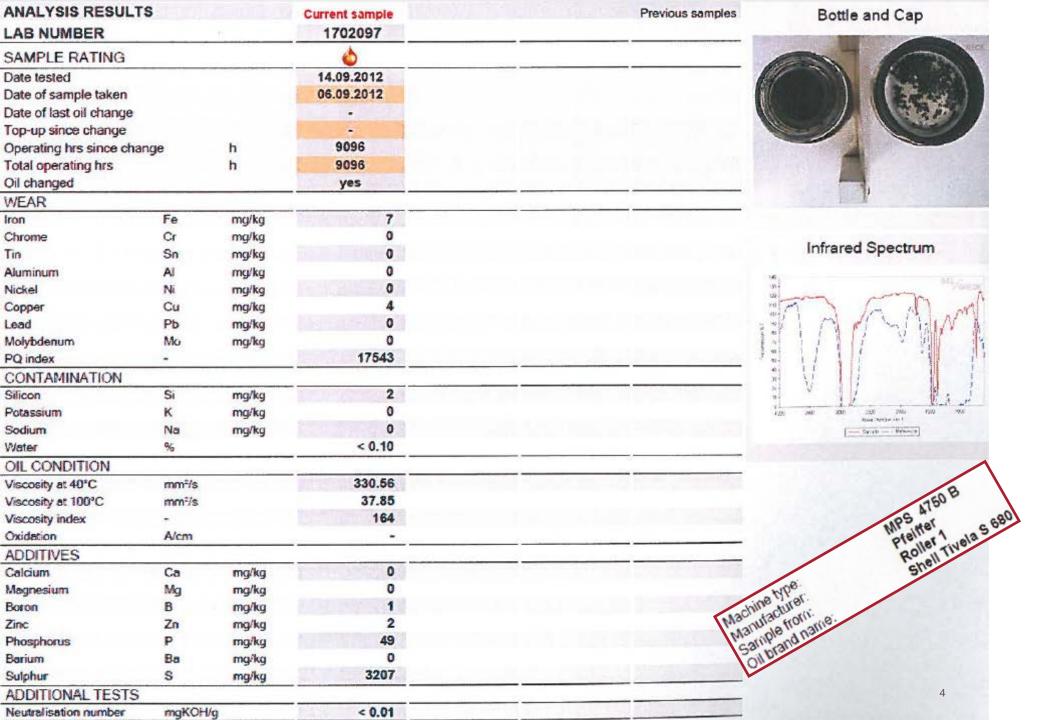


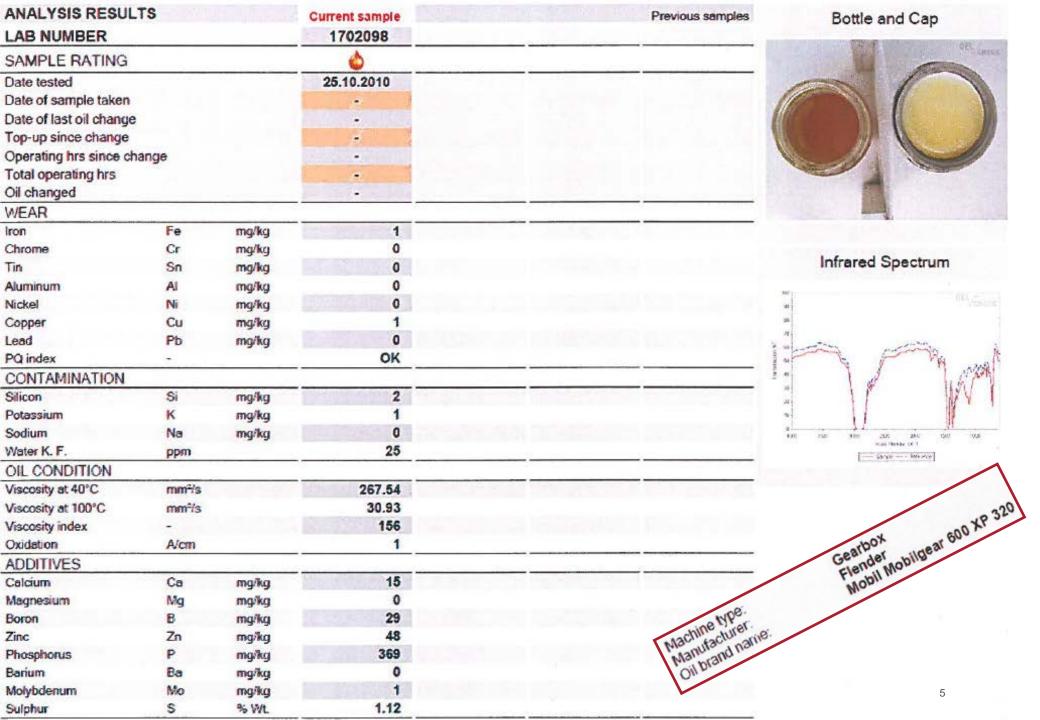
Oil analysis interpretation



ANALYSIS RESULTS			Current sample			Previous samples	Bottle and Cap
LAB NUMBER			1700697	1700698	1700699		
SAMPLE RATING			•	?	1		
Date tested			11.05.2012	13.10.2011	14.04.2011		
Date of sample taken			27.04.2012	06.10.2011	09.04.2011		
Date of last oil change			30.01.2009	30.01.2009	30.01.2009		
Top-up since change		1	70	70	0		
Operating hrs since chang	е	h	20340	17160	13280		
Total operating hrs		h	44300	41120	37240		
Oil changed			no	no	no		
WEAR							
Iron	Fe	mg/kg	108	55	76		
Chrome	Cr	mg/kg	0	0	0		1.6 1.6
Tin	Sn	mg/kg	0	3	2		Infrared Spectrum
Aluminum	Al	mg/kg	0	0	0		100
Nickel	Ni	mg/kg	0	0	0		90
Copper	Cu	mg/kg	1	1	1		80 -
Lead	Pb	mg/kg	31	11	16		70
PQ index	-		50	31	29		I want to be a facility of the same of the
CONTAMINATION							Musey (1)
Silicon	Si	mg/kg	3	1	1		20 \ //
Potassium	K	mg/kg	2	0	0		10
Sodium	Na	mg/kg	0	0	0		4000 3900 3000 2500 2000 1500 1000
Water	%		< 0.10	< 0.10	< 0.10		Wine Number cen-1 Sample — Reference
OIL CONDITION							
Viscosity at 40°C	mm²/s		228.20	224.30	223.70		
Viscosity at 100°C	mm²/s		19.81	18.65	18.58		
Viscosity index	-		99	92	92		220
Oxidation	A/cm		4	3	4		XMP
ADDITIVES							Mill 9 Polysius Mobil Mobilgear XMP 220 Mobil Mobilgear XMP 220
Calcium	Ca	mg/kg	8	4	0		MODING MODING
Magnesium	Mg	mg/kg	0	0	0		Mobil
Boron	В	mg/kg	1	1	0		M0501
Zinc	Zn	mg/kg	180	80	121	MD8.	
Phosphorus	Р	mg/kg	265	238	248	chine durer	OB: 40Mi
Barium	Ba	mg/kg	0	0	0	Macritagra n	all Syste
Molybdenum	Мо	mg/kg	1	0	0	Wai prano	M, III
Sulphur	S	% Wt.	1.49	1.42	1.39	Oil digita	
ADDITIONAL TESTS						Machine type: Manufacturer Oil brand no	2
Neutralisation number	mgKOH/g		0.47	0.57	0.56	· ·	

ANALYSIS RESULTS		Current sample		2 previous sa	mples not shown -	Bottle and Cap	
LAB NUMBER			1701176	1701177	1701178	1701179	Carl Carl
SAMPLE RATING			۵	•	٥	۵	PAGE 1
Date tested			07.06.2010	07.12.2009	04.12.2007	18.09.2007	
Date sample taken			28.05.2010	03.12.2009	26.11.2007	11.09.2007	
Date of last oil change					-	4	
Top-up since change				-	20	2	
Operating hrs since cha	nge			-	•	- 4	
Total operating hrs				72	95	-	
Oil changed			no	no	no	no	
WEAR							
Iron	Fe	mg/kg	5	29	15	14	
Chrome	Cr	mg/kg	0	0	0	0	
Tin	Sn	mg/kg	0	0	0	0	Infrared Spectrum
Aluminum	Al	mg/kg	0	0	0	0	14
Nickel	Ni	mg/kg	0	0	0	0	W.S.
Copper	Cu	mg/kg	1	1	1	2	34
Lead	Pb	mg/kg	0	0	0	0	A
PQ index			OK	43	26	30	Mas of the seal
CONTAMINATION							1.
Silicon	Si	mg/kg	15	15	16	16	
Potassium	K	mg/kg	1	0	0	0	
Sodium	Na	mg/kg	0	1	0	0	ER AND AND AND AND THE
Water	%	OF BORNESS	< 0.10	< 0.10	< 0.10	< 0.10	Sangh — Armore S
OIL CONDITION							
Viscosity at 40°C	mm²/s		325.40	326.39	322.29	314.47	
Viscosity at 100°C	mm²/s		34.71	34.33	34.54	33.71	
Viscosity index	-		151	149	151	150	. 220
Oxidation	A/cm		1	1	1	1	.he .metic X 3.
ADDITIVES							Getriebe Flender Castrol Optigear Synthetic X 320
Calcium	Ca	mg/kg	1685	1494	1626	1592	Eleugo, Obrig.
Magnesium	Mg	mg/kg	2	3	8	9	"US. Casu
Boron	В	mg/kg	0	0	0	0	1.100
Zinc	Zn	mg/kg	2	6	3		Machine by Manufacturer. Oil brand name: Oil or brand name: Oil or brand name: Oil or brand name:
Phosphorus	P	mg/kg	335	318	357		Oll prana with lu sha
Barium	Ba	mg/kg	0	0	0	0	Oil draying,
Molybdenum	Mo	mg/kg	1019	870	926	914	
Sulphur	S	mg/kg	1698	1812	1921	1891	
ADDITIONAL TESTS							3
Neutralisation number	mgKOH	√g	1.40	1.30	1.07	1.19	





ANALYSIS RESULT	S	STEEN II	Current sample 1702100	Previous samples	Bottle and Cap
SAMPLE RATING			1702100		of the contract
Date tested			16.07.2012		
Date of sample taken			11.07.2012		
Date of last oil change			11.01.2012		
Top-up since change					
Operating hrs since char	nae	M	8		
Total operating hrs	3-				
Oil changed					
WEAR					
Iron	Fe	mg/kg	113		"
Chrome	Cr	mg/kg	2		
Tin	Sn	mg/kg	0		Infrared Spectrum
Aluminum	AI	mg/kg	1		A CONTRACTOR OF THE PROPERTY O
Nickel	Ni	mg/kg	0		w Water
Copper	Cu	mg/kg	1		a.
Lead	Pb	mg/kg	0		9 4
PQ index	-		138		1 - War
CONTAMINATION		1105.03			1 1 1 11. All
Silicon	Si	mg/kg	31		
Potassium	K	mg/kg	0		- 1/ 1/ 1/
Sodium	Na	mg/kg	0		\$10 NO NO NO ME NO NO
Water	%	170955-00-	< 0.10		The Serve - Brooks
OIL CONDITION					20-1-00-25-19-10-1
Viscosity at 40°C	mm²/s		309.54		
Viscosity at 100°C	mm²/s		33.33		
Viscosity index	*		150		
Oxidation	A/cm		2		
ADDITIVES					st
Calcium	Ca	mg/kg	0		arbo. C 634
Magnesium	Mg	mg/kg	0		GEW SHE
Boron	В	mg/kg	5		Gearbox SEN MODI MOZI
Zinc	Zn	mg/kg	0		
Phosphorus	P	mg/kg	889		
Barium	Ba	mg/kg	0		a Horis a rath.
Molybdenum	Mo	mg/kg	0	activ	tacturam's yau
Sulphur	S	mg/kg	330	Maan	ne type nacturer nact
ADDITIONAL TESTS				No.	I QUAL
Neutralisation number	mgKOH	ACCOUNT OF THE PARTY OF THE PAR	0.60		
Cleanliness class		DE (1999)	23/20/13	· · · · · · · · · · · · · · · · · · ·	
A: >4µm = ISO >4µm		s/100ml	6641564		
B: >6µm = ISO >6µm		s/100ml	527324		
C: >14µm = ISO >14µm		s/100ml	6008		
D: >21μm		s/100mi	1335		
E: >38µm F: >70µm		s/100mi s/100mi	0		6
			> 12A		
Cleanliness class	SAE AS	9008	> 12A		

ANALYSIS RESULTS LAB NUMBER		Current sample		Bottle and Cap			
		1702103	1702104	1702105	1702106		
SAMPLE RATING	((.), (.)		۵	۵	۵	6	
Date tested Date of sample taken Date of last oil change Top-up since change Operating hrs since cha Total operating hrs Oil changed	nge	h h	19.09.2012 17.09.2012 12.02.2003 	23.05.2012 22.05.2012 12.02.2003 - 57746 209991 no	11.01.2012 09.01.2012 12.02.2003 - 55781 208026 no	15.09.2011 12.02.2003 - 53779 205974 no	
WEAR	-			27	O.F.	93	
Iron	Fe	mg/kg	38	37	35	33	
Chrome	Cr	mg/kg	0	0	0	0	Infrared Spectrum
Tin	Sn	mg/kg	0	1	0	0	minutes operation
Aluminum	AI	mg/kg	0	0	0	0	187 . 188
Nickel	Ni	mg/kg	0	0		0 2	At
Copper	Cu	mg/kg	2 2	2	2 2	2	N N
Lead PQ index	Pb	mg/kg	33	OK	35	OK	1 - A
CONTAMINATION			- 33	- OK	33	- OK	Mrs M care
Silicon	Si	mg/kg	0	0	1	1	. 1
Potassium	K	mg/kg	3	0	1	1	x
Sodium	Na	mg/kg	2	0	0	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tungsten	W	mg/kg		2	-	-	ACA Tens to 1
Water	%		< 0.10	< 0.10	< 0.10	< 0.10	\$ District of
OIL CONDITION	2/5/						STA 200 Terny Jacks Renky Jaen 600 XP 220
Viscosity at 40°C	mm²/s		240.00	241.85	240.84	240.31	O XP
Viscosity at 100°C	mm²/s		19.67	19.79	20.05	19.72	7 11 1800
Viscosity index	-		94	94	96	94	1 200 Rennidea
Oxidation	A/cm		1	1	1	1	STACKE MODIL
ADDITIVES							Talobilli
Calcium	Ca	mg/kg	10	6	11	10	1,800
Magnesium	Mg	mg/kg	0	0	0	0	
Boron	В	mg/kg	16	16	15	16	o'Habor. or soun.
Zinc	Zn	mg/kg	34	22	25	27	achine acturating system
Phosphorus	P	mg/kg	235	220	237	227	Me and and the M
Barium	Ba	mg/kg	0	0	0	0	Machine Hipe Manufacturer in systemi Manufacturer in systemi
Molybdenum	Mo	mg/kg	2	0	1	0	On
Sulphur	S	% Wt	1.25	1.31	1,31	1.12	
ADDITIONAL TESTS		- 1979 (STA 750	THE PERSON NAMED IN				7
Neutralisation number	mgKOF	l/g	0.76	0.90	0.90	88.0	

ANALYSIS RESULT	s		Current sample	NO SELECTION TO SECTION	Previous samples	Bottle and Cap
LAB NUMBER			1702124	1702125		
SAMPLE RATING			۵	۵	1.0	
Date tested Date of sample taken Date of last oil change			16.09.2011 08.09.2011	14.01.2011 10.01.2011	(
Top-up since change				•		
Operating hrs since char	nge	h	1350	1260		
Total operating hrs		h	1350	1260		
Oil changed			no	no		
WEAR						
Iron	Fe	mg/kg	2	0		
Chrome	Cr	mg/kg	0	0		Infrared Spectrum
Tin	Sn	mg/kg	1	0		milated opecadin
Aluminum	AI	mg/kg	0	0		u,
Nickel	Ni	mg/kg	0	0		Al Committee
Copper	Cu	mg/kg	6	7		74
Lead	Pb	mg/kg	3	0	1	a -co-
Molybdenum	Mo	mg/kg	0	OK OK	1	M mm
PQ index	•		OK	OK		1 W
CONTAMINATION						- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Silicon	Si	mg/kg	4	0		*
Potassium	K	mg/kg	0	2		FEST 2000 Alon 2512 200 1100 1000 Water November 5 1100
Sodium	No	mg/kg	5	0		TROB - Result I
Tungsten	W	mg/kg	0.12	-0.10		
Water OIL CONDITION	%		0.12	< 0.10		
			45.23	46.75		A
Viscosity at 40°C	mm²/s		45.23 n/a	6.54		
Viscosity at 100°C	mm²/s		n/a	87		be
Viscosity index Oxidation	A/cm		1	1		-orte d
ADDITIVES	Accin					Not reported Not reported
Calcium	Ca	mg/kg	30	50		Mor replic Has
Magnesium	Mg	mg/kg	0	0		Not reported Has Not reported Has
Boron	B	mg/kg	0	0		HAR OH
Zinc	Zn	mg/kg	274	256		Hot reported Hot reported Hydraulic
Phosphorus	P	mg/kg	258	245		E 180
Barium	Ba	mg/kg	0	0		MD8.
Sulphur	S	mg/kg	4424	4864		18 11 184.
ADDITIONAL TESTS					a chi	The Hype and reading the system.
Cleankness class	ISO 440	06 (1999)	19/19/19	21/20/16	Mode	Mr. Burgar
A: >4µm = ISO >4µm		s/100ml	370570	1576380	bys	alle and will
B: >6µm = ISO >6µm		s/100ml	338600	552000	5	oil ple still
C: >14µm = ISO >14µm		s/100ml	328150	49280		On dry
D: >21µm		s/100ml	326200	25910		O"
E: >38µm		s/100ml	304510	150		
F: >70µm		s/100mi	11880	30		8
Cleanliness class	SAE AS		> 12C	12D		

ANALYSIS RESULTS		Current sample		DAN SAME SAME	Previous samples	Bottle and Cap	
LAB NUMBER SAMPLE RATING			1702126	1702127	1702128	1702129	Domo dila dap
			۵	۵	۵	6	96
Date tested Date of sample taken Date of last oil change Top-up since change		12.10.2012 11.10.2012 21.09.2006	08.08.2012 07.08.2012 21.09.2006	07.05.2012 24.04.2012 21.09.2006	05.01.2012 03.01.2012 21.09.2006		
Operating hrs since ch Total operating hrs	ange	h	47391	45834	43781	41464	
Oil changed WEAR			no	no	no	no	
Iron	Fe	mg/kg	51	55	57	42	7 4568
Chrome	Cr	mg/kg	0	0	0	0	
Tin	Sn	mg/kg	0	0	0	0	Infrared Spectrum
Aluminum	Al	mg/kg	14	15	14	11	AND THE PARTY AND THE PARTY OF
Nickel	Ni	mg/kg	0	0	0	0	W.
Copper	Cu	mg/kg	2	2	2	2	N-
Lead	Pb	mg/kg	0	0	0	0	3
Molybdenum	Mo	mg/kg	33	34	35	32	a section of the last
Manganese	Mn	mg/kg	1		-		14 7 / 19 10
PQ index		9,000	ОК	OK	OK	OK	1 1
CONTAMINATION							
Silicon	Si	mg/kg	20	20	22	16	KUR 160 USD 154 590 150 100
Potassium	K	mg/kg	0	2	0	0	Allow Toking on 1
Sodium	Na	mg/kg	0	0	0	0	
Water	%	2-20-20	< 0.10	< 0.10	< 0.10	< 0.10	
OIL CONDITION							
Viscosity at 40°C	mm²/s	97 - SEAN AND SEE	456.08	462.17	461.67	459.18	401
Viscosity at 100°C	mm ⁻⁷ /s		30.43	31.98	30.05	30.89	bold aringmas.
Viscosity index	*		96	100	94	97	Humin he Gean
Oxidation	A/cm		4	5	2	2	Plauchs
ADDITIVES				2000			Huntood sing the steel fuchs to the steel fuchs of the steel fuch of the steel fuchs of the steel fuch of the steel fu
Calcium	Ca	mg/kg	32	32	35	30	
Magnesium	Mg	mg/kg	3	0	1	1	cure in a tem
Boron	В	mg/kg	16	15	15	14	THIST HOLD THE STATE
Zinc	Zn	mg/kg	30	31	32	29	Ma aring arouth
Phosphorus	P	mg/kg	324	324	355	292	Manuacuted Horning System.
Barium	Ва	mg/kg	32	33	36	26	011
Sulphur	S	% Wt	1.60	1.47	1.59	1.28	▼

