

	Sampled	08 Feb 2011	17 Sep 2012	21 Sep 2015	28 Sep 2016	21 Aug 2017
	Reported	12 Feb 2011	20 Sep 2012	06 Oct 2015	07 Oct 2016	30 Aug 2017
	Contamination Rating	Normal	Normal	Normal	Normal	Normal
	Equipment Rating	Normal	Normal	Normal	Normal	Normal
	Oil Rating	ALERT	ALERT	Normal	Normal	Normal
Lubricant	Diluted ISO Code (4/6/14)					24/24/20
	Particle Count (Diluted) >4um					159411
	Particle Count (Diluted) >6um					117932
	Particle Count (Diluted) >14um					6415
	ISO Code (4/6/14)	21/19/16	22/20/15	22/21/19	22/21/18	
	Particle Count >4um	13296	22003	25845	28641	
	Particle Count >6um	3807	6649	18136	18317	
	Particle Count >14um	537	276	3164	1487	
	PQ Index	0	40	11	22	77
	Visc @40C (cSt)	136.7	158.6	205.8	210.6	219.3
	Oxidation (Ab/cm)	2	4	1	0	
	TAN (mg KOH/g)					0.83
	Water (Vol%)	0.013	0.018	0.007	<0.003	<0.003
ICP Wear Debris (ppm)	Al (Aluminum)	0	0	0	0	0
	Cr (Chromium)	0	1	0	0	0
	Cu (Copper)	6	0	0	0	0
	Fe (Iron)	35	135	45	57	96
	Mo (Molybdenum)	0	0	0	0	0
	Ni (Nickel)	0	0	0	0	0
	Pb (Lead)	0	0	0	0	0
	Sn (Tin)	0	0	2	0	1
ICP Contaminants (ppm)	K (Potassium)	0	1	0	0	0
	Na (Sodium)	3	6	1	0	0
	Si (Silicon)	1	4	8	6	17
ICP Additives (ppm)	B (Boron)	2	3	2	3	1
	Ba (Barium)	6	17	0	0	0
	Ca (Calcium)	39	23	0	0	1
	Mg (Magnesium)	2	0	0	0	0
	P (Phosphorus)	362	229	316	317	403
	Zn (Zinc)	344	8	2	1	1

Figure 5: Used oil analysis results for chain conveyor gearbox.