

**Analysis Report**

**Component Information**

Machine Type: Gasoline Engine Sump Size: Unknown  
 Lubricant: UNKNOWN/5W40  
 Machine MFG: OTHER  
 Machine MOD: 1500 TRX  
 Machine Criticality: Not Specified

**Sample Information**

Received: 11/29/2023  
 Report: 11/29/2023  
 Sample No.: 9625 - 1 - 1 - 4  
 Analyst/Test: JQT / PAT2  
 Sample Source Rating: Not Specified

**Customer Information**

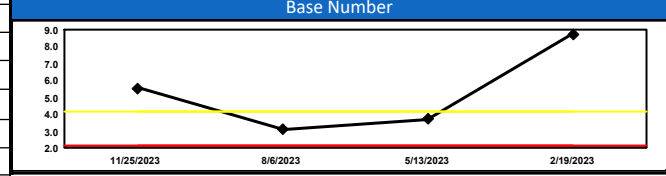
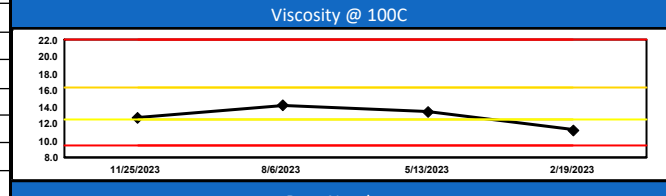
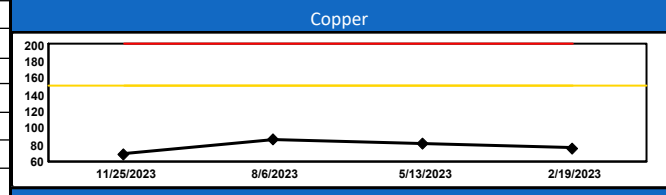
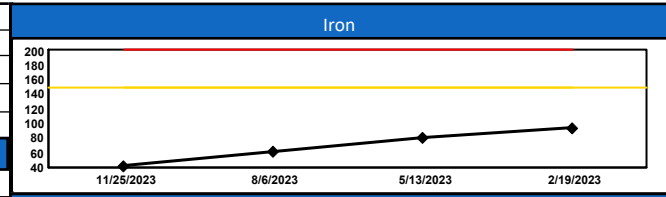
**PROBLEMS** No problems found with current sample.

**COMMENTS** The results for this sample indicate normal conditions. Please continue scheduled sampling.

**CUSTOMER NOTES**

Date Sampled	NEW OIL	11/25/2023	8/6/2023	5/13/2023	2/19/2023
Lab No	1333217	4728166	4569603	4475194	4340327
Machine / Lube Cond.		N / N	N / M	N / M	N / M
Lube Hours		2864	2784	2856	1715
Machine Hours		20671	17807	15023	12167

ELEMENTAL SPECTROSCOPY (ppm) ASTM D5185 Mod (-) indicates below detection limit						
Wear Metals	Iron	-	41	61	80	93
	Copper	-	68	86	81	75
	Lead	-	-	-	-	-
	Aluminum	-	3	4	2	-
	Tin	-	-	-	-	-
	Nickel	-	-	-	-	-
	Chromium	-	-	-	-	-
	Titanium	-	-	-	-	-
	Vanadium	-	-	-	-	-
	Silver	2	-	-	-	-
Additives	Calcium	2522	2029	1510	1628	1381
	Magnesium	14	715	224	250	1064
	Phosphorus	856	731	871	891	813
	Zinc	972	882	1064	1086	925
	Barium	-	-	-	-	-
Contaminants	Molybdenum	-	551	211	174	106
	Silicon	5	5	9	7	11
	Boron	92	82	241	361	197
	Lithium	-	-	-	-	-
	Sodium	-	10	11	11	12
Potassium	-	-	-	-	-	



FTIR SPECTROSCOPY (Indexing Numbers) ASTM E2412						
Oxidation	7	45	108	92	16	
Glycol	0	0	0	0	0	
Soot	2	3	3	3	3	
Fuel Dilution	0	0	0	0	0	

PARTICLE COUNT (particles per ml) ISO 4406:99						
Pore Block Particle Count Alarm Limits Marginal (21/18/15)						
Pore Block ISO Code	16/15/11	13/11/7	13/12/8	17/15/12	18/17/13	
>4 Micron	454	42	77	800	2319	
>6 Micron	176	16	29	311	901	
>14 Micron	13	1	2	23	68	
>25 Micron	6	0	1	10	30	
>50 Micron	0	0	0	1	3	
>100 Micron	0	0	0	0	0	

VISCOSITY (centistokes) ASTM D445 MOD						
Viscosity@100°C	14.2	12.7	14.2	13.4	11.2	

BASE NUMBER (mg KOH/g) † - ASTM D4739 ‡ - IWI-390						
Base Number	8.33 †	5.50 ‡	3.09 †	3.71 ‡	8.72 ‡	

WATER (%) a-ASTM D6304C b-IWI-134* c-Crackle d-IWI-135* e-IWI-370*						
Water		NEG (c)	NEG (c)	0.0706 (a)	NEG (c)	

FUEL DILUTION BY GC (%) ASTM D7593						
Fuel Dilution	0	1.9	1.6	1.8	2.1	

Testing performed by Eurofins TestOil. This test is accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ANAB National Accreditation Board. Refer to certificate and scope of accreditation L2221. (e) - Estimated sample date. (\*) - Not in scope of accreditation by the application of and reliance upon results and recommendations reported by Eurofins TestOil, whose obligation is limited to good faith performance. Samples tested as received.