

Analysis Report

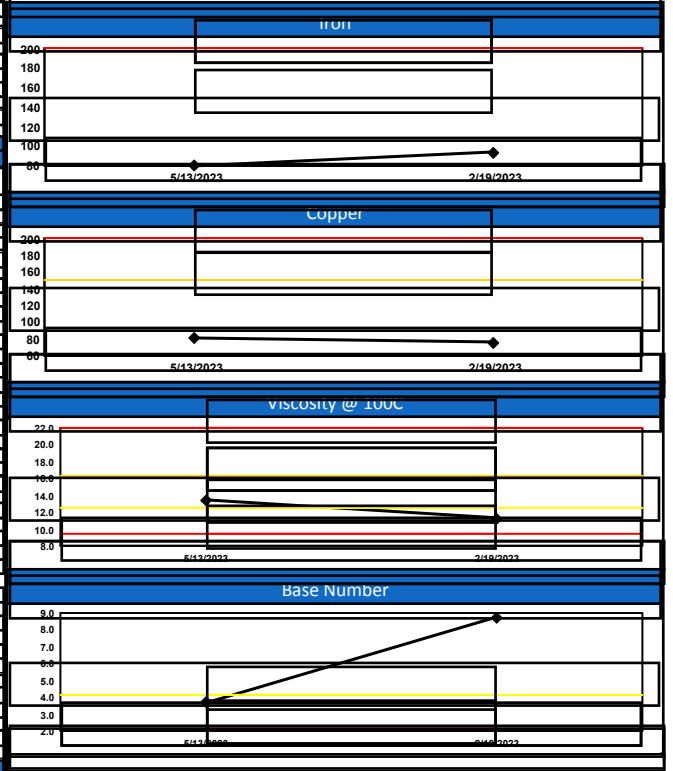
Component Information	Sample Information	Customer Information
Machine Type: Gasoline Engine	Received: 06/06/2023	<div style="border: 1px solid black; width: 100%; height: 40px;"></div>
Lubricant: UNKNOWN/5W40	Report: 06/06/2023	
Machine MFG: OTHER	Sample No.: 9625 - 1 - 1-2	
Machine MOD: 1500 TRX	Analyst/Test: JQT / KFPAT2	
Machine Criticality: Not Specified	Sample Source Rating: Not Specified	

PROBLEMS	COMMENTS
Low Base Number	The base number result is low and considered abnormal. Low base number results indicate diminished levels of alkaline reserve additive.

CUSTOMER NOTES

Date Sampled	NEW OIL	5/13/2023	2/19/2023
Lab No	1333217	4475194	4340327
Machine / Lube Cond.		N / M	N / M
Lube Hours		2850	1715
Machine Hours		15023	12167

ELEMENTAL SPECTROSCOPY (ppm) ASTM D5185 MOD (-) indicates below detection limit				
Wear Metals	Iron	-	80	93
	Copper	-	81	75
	Lead	-	-	-
	Aluminum	-	2	-
	Tin	-	-	-
	Nickel	-	-	-
	Chromium	-	-	-
	Titanium	-	-	-
	Vanadium	-	-	-
	Silver	2	-	-
Additives	Calcium	2522	1628	1381
	Magnesium	14	250	1064
	Phosphorus	856	801	813
	Zinc	972	1086	925
	Barium	-	-	-
Contaminants	Molybdenum	-	174	106
	Silicon	5	7	11
	Boron	92	361	197
	Lithium	-	-	-
	Sodium	-	11	12
Potassium	-	-	-	



FTIR SPECTROSCOPY (Indexing Numbers) ASTM E2412				
Oxidation	7	92	16	
Glycol	0	0	0	
Soot	2	3	3	
Fuel Dilution	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	17/15/12	18/17/13	
>4 Micron	454	800	2310	
>6 Micron	176	311	901	
>14 Micron	13	23	68	
>25 Micron	6	10	30	
>50 Micron	0	1	3	
>100 Micron	0	0	0	

VISCOSITY (centistokes) ASTM D445 MOD				
Viscosity@100°C	14.2	13.4	11.2	
BASE NUMBER (mg KOH/g) ± ASTM D4732 ± IHL 200				
Base Number	8.33 †	3.71 ‡	8.72 ‡	

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WATER (%) a-ASTM D6304C b-IWI-134* c-Crackle d-IWI-135* e-IWI-370*					
Water		0.0706 (a)	NEG (c)		
FUEL DILUTION BY GC (%) ASTM D7593					
Fuel Dilution	0	1.8	2.1		

