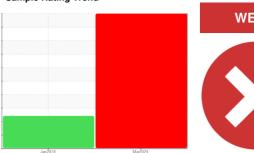


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

CLARK CLARK FORK LIFT

Liquid Petroleum Gas

GASOLINE ENGINE OIL SAE 5W30 (5 QTS)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Piston, ring and cylinder wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

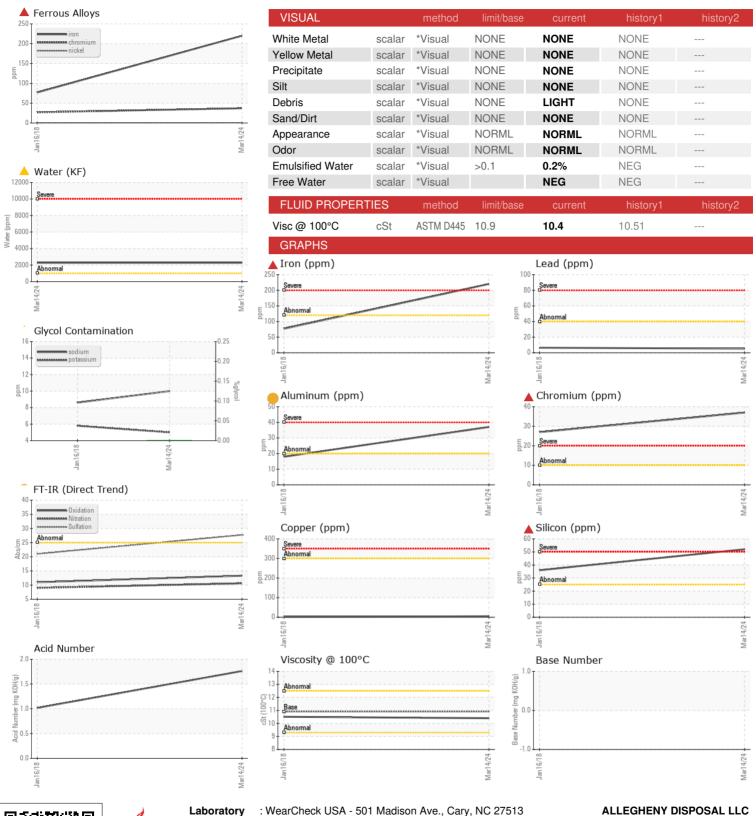
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

)			Jan2018	MarŽ024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871806	WCM2295550	
Sample Date		Client Info		14 Mar 2024	16 Jan 2018	
Machine Age	hrs	Client Info		7543	4866	
Oil Age	hrs	Client Info		500	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	220	77	
Chromium	ppm	ASTM D5185m	>10	A 37	<u>^</u> 27	
Nickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m		1	<1	
Silver	ppm	ASTM D5185m	>5	0	0	
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	18	
Lead	ppm	ASTM D5185m	>40	5	6	
Copper	ppm	ASTM D5185m	>300	5	1	
Tin	ppm	ASTM D5185m	>10	3	12	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	75	14	8	
Barium	ppm	ASTM D5185m	5	<1	<1	
Molybdenum	ppm	ASTM D5185m	100	80	59	
Manganese	ppm	ASTM D5185m		3	2	
Magnesium	ppm	ASTM D5185m	12	383	20	
Calcium	ppm	ASTM D5185m	2100	1542	2476	
Phosphorus	ppm	ASTM D5185m	650	571	611	
Zinc	ppm	ASTM D5185m	850	690	785	
Sulfur	ppm	ASTM D5185m	2500	3406	3264	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 52	▲ 36	
Sodium	ppm	ASTM D5185m		10	9	
Potassium	ppm	ASTM D5185m	>20	5	6	
Water	%	ASTM D6304	>0.1	△ 0.228		
ppm Water	ppm	ASTM D6304	>1000	2280		
Glycol	%	*ASTM D2982		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.6	9.	
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.7	21.	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	11.	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.76	1.016	
	3 3					



OIL ANALYSIS REPORT





Laboratory Sample No.

: WC0871806 Lab Number : 06149579 Unique Number: 10979657

Received **Tested** Diagnosed

: 18 Apr 2024

: 15 Apr 2024

: 18 Apr 2024 - Jonathan Hester

Contact: SERVICE MANAGER meckmechanic@frontier.com T: (304)456-4541

Test Package : MOB 2 (Additional Tests: Glycol, KF) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (304)456-4540 Contact/Location: SERVICE MANAGER - ALLGRELF

PO BOX 4

US 24944

GREEN BANK, WV