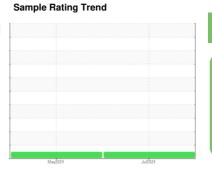


OIL ANALYSIS REPORT





DIESEL ENGINE OIL SAE 40 (5 GAL)





Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: W02008518)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

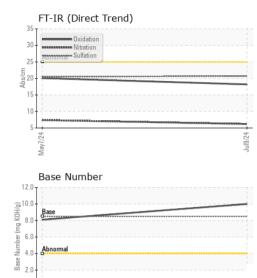
Fluid Condition

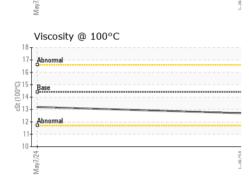
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

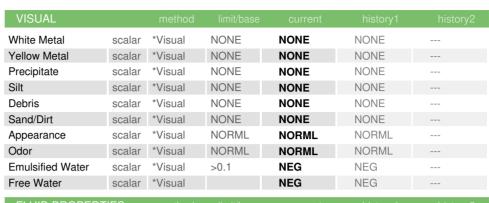
SAMPLE INFORM Sample Number	IATION	method	limit/base	current	history1	history2
Sample Number						
·		Client Info		ML0002342	ML0001136	
Sample Date		Client Info		09 Jul 2024	07 May 2024	
Machine Age	hrs	Client Info		12089	11739	
Oil Age	hrs	Client Info		350	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	I	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	3	6	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	1	3	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>15	0	0	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	42	59	
Barium	ppm	ASTM D5185m	10	0	<1	
Molybdenum	ppm	ASTM D5185m	100	43	48	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	450	516	546	
Calcium	ppm	ASTM D5185m	3000	1746	1833	
Phosphorus	ppm	ASTM D5185m	1150	944	822	
Zinc	ppm	ASTM D5185m	1350	1109	967	
Sulfur	ppm	ASTM D5185m	4250	3290	3065	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	7	
Sodium	ppm	ASTM D5185m	>216	3	1	
Potassium	ppm	ASTM D5185m	>20	0	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.5	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	20.1	



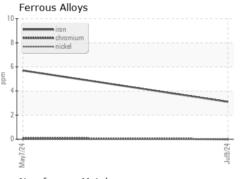
OIL ANALYSIS REPORT

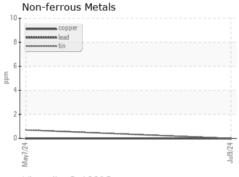


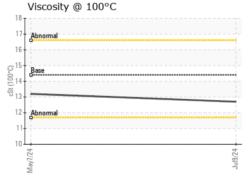


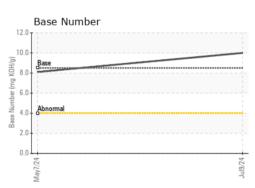


FLUID PROPERTIES		method			history1	history2	
	Visc @ 100°C	cSt	ASTM D445	14.4	12.7	13.2	













Laboratory Sample No.

Lab Number : 06234264 Unique Number : 11123098

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0002342 Received : 11 Jul 2024 **Tested**

Diagnosed

: 12 Jul 2024

: 14 Jul 2024 - Don Baldridge

US 20153 Contact: SERVICE MANAGER jimmy_elswick@wahazel.com T: (703)378-8300

Certificate 12367

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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) **WILLIAM HAZEL**

CHANTILLY, VA

PO BOX 600