

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 933032 Component Natural Gas Engine Fluid RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

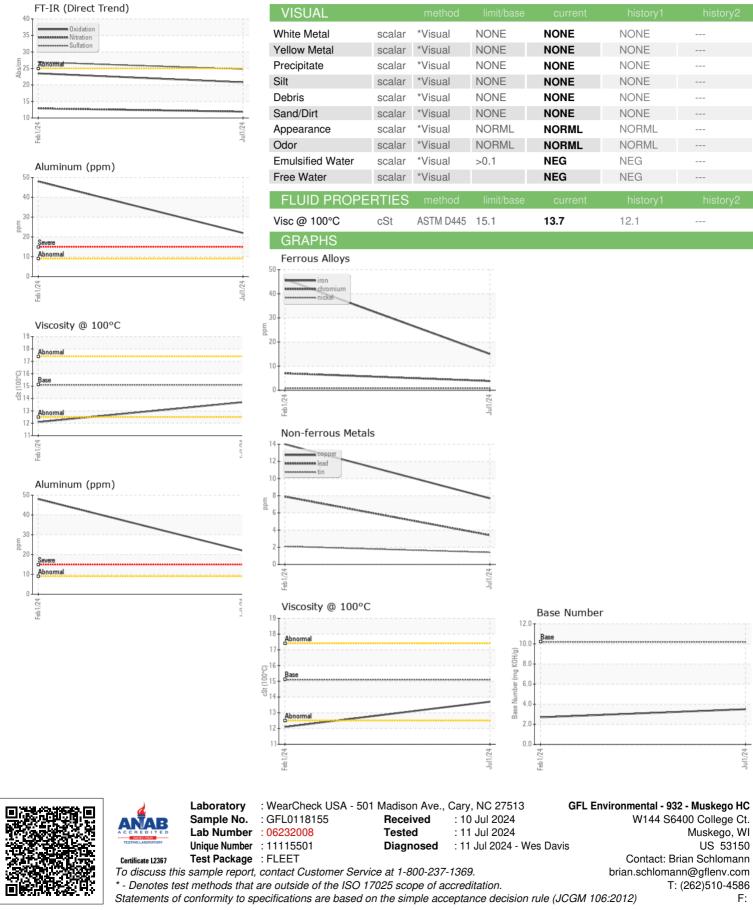
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118155	GFL0086726	
Sample Date		Client Info		01 Jul 2024	01 Feb 2024	
Machine Age	hrs	Client Info		2300	1194	
Oil Age	hrs	Client Info		1106	1194	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	15	46	
Chromium	ppm	ASTM D5185m	>4	4	<u> </u>	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	22	48	
Lead	ppm	ASTM D5185m	>30	3	8	
Copper	ppm	ASTM D5185m	>35	8	14	
Tin	ppm	ASTM D5185m	>4	1	2	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	6	7	
Barium	ppm	ASTM D5185m	5	0	5	
Molybdenum	ppm	ASTM D5185m	50	53	59	
Manganese	ppm	ASTM D5185m	0	2	5	
Magnesium	ppm	ASTM D5185m	560	552	842	
Calcium	ppm	ASTM D5185m	1510	1532	1252	
Phosphorus	ppm	ASTM D5185m	780	713	751	
Zinc	ppm	ASTM D5185m	870	914	901	
Sulfur						
Sullui	ppm	ASTM D5185m	2040	2338	2133	
CONTAMINAN		ASTM D5185m method	2040 limit/base	2338 current	2133 history1	history2
CONTAMINAN	ITS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	ITS ppm	method ASTM D5185m	limit/base	current 18	history1 74	history2
CONTAMINAN Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 18 4	history1 74 5	history2
CONTAMINAN Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+100 >20	current 18 4 67	history1 74 5 172	history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >+100 >20 limit/base	current 18 4 67 current	history1 74 5 172 history1	history2 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	Ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m • Method *ASTM D7844 *ASTM D7624	limit/base >+100 >20 limit/base	current 18 4 67 current 0	history1 74 5 172 history1 0	history2 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	Ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	limit/base >+100 >20 limit/base >20	current 18 4 67 current 0 11.9	history1 74 5 172 history1 0 12.9	history2 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	Ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	limit/base >+100 >20 limit/base >20 >30	current 18 4 67 current 0 11.9 24.8	history1 74 5 172 history1 0 12.9 26.9	history2 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	Ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	method ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624 Method	limit/base >+100 >20 limit/base >20 >30 limit/base >25	current 18 4 67 current 0 11.9 24.8 current	history1 74 5 172 history1 0 12.9 26.9 history1	history2 history2 history2



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Submitted By: GFL932, GFL414 - BECKY FLETCHER