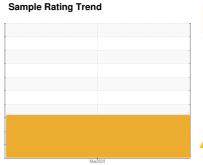


OIL ANALYSIS REPORT







Machine Id FL-37 Component Genset

DIESEL ENGINE OIL SAE 15W40 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

				Mar2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113899		
Sample Number		Client Info		13 Mar 2024		
Machine Age	hrs	Client Info		550		
Oil Age	hrs	Client Info		550		
Oil Changed	1110	Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
	ION				TIISTOLA	HISTORYZ
Fuel		WC Method		<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<u> </u>		
Chromium	ppm	ASTM D5185m	>4	3		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>12	<u>25</u>		
Lead	ppm	ASTM D5185m	>17	<1		
Copper	ppm	ASTM D5185m	>70	8		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	184		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	108		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m	450	701		
Calcium	ppm	ASTM D5185m	3000	1574		
Phosphorus	ppm	ASTM D5185m	1150	767		
Zinc	ppm	ASTM D5185m	1350	965		
Sulfur	ppm	ASTM D5185m	4250	2688		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	43		
Sodium	ppm	ASTM D5185m	>158	9		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.6		
Nitration	Abs/cm	*ASTM D7624	>20	16.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	36.6		
Base Number (BN)	mg KOH/g	ASTM D2896		7.54		
2000 Harribor (DIV)	ing itoring		5.0	7.07		



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