

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) 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 condition of the oil is acceptable for the time in service.

			May2023	Jul2023			
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0062927	GFL0062916		
Sample Date		Client Info		25 Jul 2023	01 May 2023		
Machine Age	hrs	Client Info		4005	3438		
Oil Age	hrs	Client Info		0	0		
Oil Changed		Client Info		N/A	N/A		
Sample Status				NORMAL	NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0		
Glycol		WC Method		NEG	NEG		
WEAR METAI	_S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	37	31		
Chromium	ppm	ASTM D5185(m)	>20	2	2		
Nickel	ppm	ASTM D5185(m)	>4	<1	<1		
Titanium	ppm	ASTM D5185(m)		0	<1		
Silver	ppm	ASTM D5185(m)	>3	<1	0		
Aluminum	ppm	ASTM D5185(m)	>20	6	4		
Lead	ppm	ASTM D5185(m)	>40	<1	<1		
Copper	ppm	ASTM D5185(m)	>330	2	3		
Tin	ppm	ASTM D5185(m)	>15	<1	<1		
Antimony	ppm	ASTM D5185(m)		0	<1		
Vanadium	ppm	ASTM D5185(m)		0	0		
Beryllium	ppm	ASTM D5185(m)		0	0		
Cadmium	ppm	ASTM D5185(m)		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	10	8		
Barium	ppm	ASTM D5185(m)	10	0	0		
Molybdenum	ppm	ASTM D5185(m)	100	63	62		
Manganese	ppm	ASTM D5185(m)		<1	<1		
Magnesium	ppm	ASTM D5185(m)	450	948	972		
Calcium	ppm	ASTM D5185(m)	3000	1118	1173		
Phosphorus	ppm	ASTM D5185(m)	1150	983	1081		
Zinc	ppm	ASTM D5185(m)	1350	1170	1228		
Sulfur	ppm	ASTM D5185(m)	4250	2422	2561		
Lithium	ppm	ASTM D5185(m)		<1	<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	6	6		
Sodium	ppm	ASTM D5185(m)	>216	8	8		
Potassium	ppm	ASTM D5185(m)	>20	16	6		
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.5	0.4		
Nitration	Abs/cm	ASTM D7624*	>20	10.8	10.1		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	21.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.0	17.9		
:31:50) Rev: 1				Contact/Loc	Contact/Location: Andrea Michael - GFL777		



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