

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

SPARTAN 24147/P443 Component

Right Diesel Engine CASTROL 15W40 (21 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0083808	AP105601	
Sample Date		Client Info		11 Jan 2024	11 Apr 2018	
Machine Age	mths	Client Info		0	123006	
Oil Age	mths	Client Info		6	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	29	31	
Chromium	ppm	ASTM D5185(m)	>5	2	1	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>15	3	3	
Lead	ppm	ASTM D5185(m)	>25	<1	3	
Copper	ppm	ASTM D5185(m)	>100	1	2	
Tin	ppm	ASTM D5185(m)	>4	0	0	
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)		3	34	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		60	7	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		966	59	
Calcium	ppm	ASTM D5185(m)		1060	2555	
Phosphorus	ppm	ASTM D5185(m)		992	1059	
Zinc	ppm	ASTM D5185(m)		1165	1320	
Sulfur	ppm	ASTM D5185(m)		2603	3508	
Lithium	ppm	ASTM D5185(m)		<1	0	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	
Sodium	ppm	ASTM D5185(m)	>406	2	8	
Potassium	ppm	ASTM D5185(m)	>20	<1	6	
Glycol	%	ASTM D7922*		0.0	▲ 0.20	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	3	3.3	
Nitration	Abs/cm	ASTM D7624*	>20	12.0	14.7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.0	31.7	



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