

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id SPARTAN 27042/A441 Component

Right Diesel Engine

CASTROL HYPURON 15W40 (45 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

			Dec2016	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0088428	AP104332	
Sample Date		Client Info		12 Mar 2024	13 Dec 2016	
Machine Age	kms	Client Info		140332	43578	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
	<u>_</u>					history O
WEAR METAL	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	21	22	
Chromium	ppm	ASTM D5185(m)	>5	<1	1	
Nickel	ppm	ASTM D5185(m)	>4	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	2	3	
Lead	ppm	ASTM D5185(m)	>150	3	3	
Copper	ppm	ASTM D5185(m)	>90	<1	2	
Tin	ppm	ASTM D5185(m)	>5	0	<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)		4	50	
Barium	ppm	ASTM D5185(m)		0	<1	
Molybdenum	ppm	ASTM D5185(m)		64	<1	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		967	10	
Calcium	ppm	ASTM D5185(m)		1034	2500	
Phosphorus	ppm	ASTM D5185(m)		973	969	
Zinc	ppm	ASTM D5185(m)		1177	1229	
Sulfur	ppm	ASTM D5185(m)		2472	3326	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	3	4	
Sodium	ppm	ASTM D5185(m)		103	3	
Potassium	ppm	ASTM D5185(m)	>20	13	4	
Glycol	%	ASTM D7922*	-	0.0	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	0.8	0.8	
Nitration	Abs/cm	ASTM D7624*	>20	7.9	8.9	
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	20.9	24.5	
Guilallon	лузу. I I I II I I	AUTWI 07410	200	20.9	27.0	



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