

OIL ANALYSIS REPORT

Sample Rating Trend SOOT

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Area KEMP QUARRIES / PRYOR STONE Machine Id WL049 Component Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084745	PCA0085830	PCA003467
Sample Date		Client Info		04 Oct 2023	18 Aug 2023	04 Aug 2023
Machine Age	hrs	Client Info		4793	4583	4581
Oil Age	hrs	Client Info		4793	212	500
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>85	27	31	52
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>11	1	1	3
Lead	ppm	ASTM D5185m	>30	5	5	11
Copper	ppm	ASTM D5185m	>135	8	8	17
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	<1	<1
Barium	ppm	ASTM D5185m	0	3	0	1
Molybdenum	ppm	ASTM D5185m	0	58	64	67
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	858	1014	981
Calcium	ppm	ASTM D5185m		986	1106	1098
Phosphorus	ppm	ASTM D5185m		916	1048	990
Zinc	ppm	ASTM D5185m		1079	1261	1228
Sulfur	ppm	ASTM D5185m		2577	3504	2939
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	4	5
Sodium	ppm	ASTM D5185m		6	4	12
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	A 3.7	3 .7	6.8
	Abs/cm	*ASTM D7624	>20	9.3	8.9	16.7
Nitration				00.7	25.3	35.6
	Abs/.1mm	*ASTM D7415	>30	23.7	20.0	00.0
	Abs/.1mm		>30 limit/base	23.7 current	history1	history2
Nitration Sulfation FLUID DEGRAI Oxidation	Abs/.1mm					

DIAGNOSIS

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Oil sampled due to seized, pulling engine)

Wear

All component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present 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.



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