

OIL ANALYSIS REPORT

Sample Rating Trend



JOHN DEERE 350P 2509 Component Diesel Engine

EXCAVATOR

PETRO CANADA DURON HP 15W40 (--- GA

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Bearing and/or bushing wear is indicated. Valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

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.

L)		Aug202	2 Oct2022	Dec2022 No	v2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0064557	PCA0064570	PCA0064342
Sample Date		Client Info		20 Nov 2023	08 Dec 2022	06 Oct 2022
Machine Age	hrs	Client Info		2190	1000	500
Oil Age	hrs	Client Info		2190	1000	500
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>51	47	21	15
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1 1	<1	5
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>31	4	<1	2
_ead	ppm	ASTM D5185m	>26	2	1	1
Copper	ppm	ASTM D5185m	>26	<mark>/</mark> 26	4	3
Гin	ppm	ASTM D5185m	>4	<1	<1	1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	7	40
Barium	ppm	ASTM D5185m		0	0	0
Volybdenum	ppm	ASTM D5185m		102	58	82
Vanganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		968	800	930
Calcium	ppm	ASTM D5185m		1165	1164	1260
Phosphorus	ppm	ASTM D5185m		949	938	1019
Zinc	ppm	ASTM D5185m		1261	1136	1228
Sulfur	ppm	ASTM D5185m		2509	3260	3894
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8	3	5
Sodium	ppm	ASTM D5185m	>31	5	0	2
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.1	7.6	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.5	21.2
FLUID DEGRA		method	limit/base	current	history1	history2
	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 19.5	history1 17.4	history2 16.7



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