

## **OIL ANALYSIS REPORT**

**WEAR** 

Sample Rating Trend



DIAGNOSIS Recommendation

Contamination

Fluid Condition

the oil. Confirm oil type.

A Wear

oil.

## Area KANSAS/44/HY - SKID STEER 53.157L [KANSAS^44^HY - SKID STEER] **Diesel Engine**

MOBIL DELVAC 1300 SUPER15W40 (2 GAL)

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

There is no indication of any contamination in the

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0749917	WC0718119	WC0703463
Sample Date		Client Info		05 Dec 2022	16 Aug 2022	18 Jul 2022
Machine Age	hrs	Client Info		849	605	489
Oil Age	hrs	Client Info		0	116	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<b>4</b> .3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	5	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<u> </u>	2	24
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	71	114	55
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	11	10	40
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	0	679	651	471
Calcium	ppm	ASTM D5185m		1599	1441	1751
Phosphorus	ppm	ASTM D5185m		741	665	760
Zinc	ppm	ASTM D5185m		895	799	969
Sulfur	ppm	ASTM D5185m		3476	2881	3215
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	10
Sodium	ppm	ASTM D5185m		1	1	3
Potassium	ppm	ASTM D5185m	>20	4	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	8.3	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	19.5	24.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	14.5	23.1



Base

## **OIL ANALYSIS REPORT**



Submitted By: BRANDEN JAQUIAS

Page 2 of 2

F: x: