

OIL ANALYSIS REPORT

Sample Rating Trend VISCOSITY



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

Fluid MOBIL DELVAC 1300 SUPER15W40 (2 GAL)

SAMPLE INFORMATION method

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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.

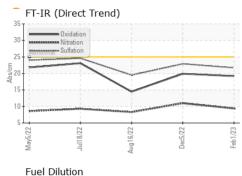
Fluid Condition

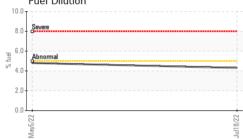
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

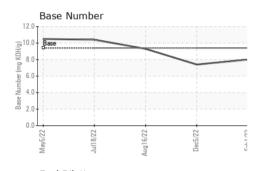
SAMFLE INFORM	ATION	method	iiiiii/base	current	TIIStory I	Thstoryz
Sample Number		Client Info		WC0749873	WC0749917	WC0718119
Sample Date		Client Info		01 Feb 2023	05 Dec 2022	16 Aug 2022
Machine Age	hrs	Client Info		909	849	605
Oil Age	hrs	Client Info		549	0	116
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	ATTENTION
CONTAMINATION	J	method	limit/base	current	history1	history2
	V					
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	15	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	99	1 44	2
Tin	ppm	ASTM D5185m	>15	0	0	<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	76	71	114
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	19	11	10
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	588	679	651
Calcium	ppm	ASTM D5185m		1492	1599	1441
Phosphorus	ppm	ASTM D5185m		685	741	665
Zinc	ppm	ASTM D5185m		841	895	799
Sulfur	ppm	ASTM D5185m		2615	3476	2881
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	4
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	3	4	<1
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624		9.4	11.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415		21.7	22.9	19.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	19.9	14.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	7.4	9.3
		22000				



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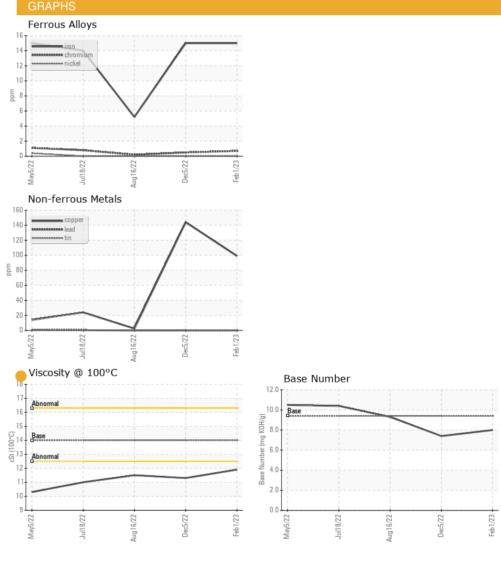


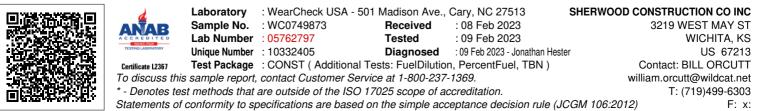






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	e 11.9	11.3	11.5





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