

DICK LAVY

OIL ANALYSIS REPORT

Sample Rating Trend



DICK LAVY 4774 Component **Front Differential**

Differential Oil (--- GAL)

DIAGNOSIS

A Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

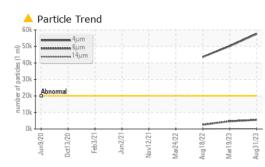
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853896	WC0797152	WC0751638
Sample Date		Client Info		31 Aug 2023	19 Mar 2023	18 Aug 2022
Machine Age	mls	Client Info		443710	384916	334461
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	220	239	216
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m	>10	<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
			>25	2	1	2
Aluminum	ppm	ASTM D5185m				
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm		>100	2	<1	2
Tin	ppm	ASTM D5185m	>10	<1	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		283	330	291
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		11	12	11
Magnesium	ppm	ASTM D5185m		137	144	129
Calcium	ppm	ASTM D5185m		18	18	16
Phosphorus	ppm	ASTM D5185m		1449	1383	1387
Zinc	ppm	ASTM D5185m		4	0	5
Sulfur	ppm	ASTM D5185m		19995	24623	23874
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	23	22	22
Sodium	ppm	ASTM D5185m		6	6	4
Potassium	ppm	ASTM D5185m	>20	280	311	310
Water	%	ASTM D6304	>.2	0.033	0.042	0.026
ppm Water	ppm	ASTM D6304	>2000	333.4	427.8	260.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	6 57584	▲ 50163	4 3650
Particles >6µm		ASTM D7647	>5000	<u> </u>	4713	2600
Particles >14µm		ASTM D7647	>640	140	121	24
Particles >21µm		ASTM D7647	>160	26	48	3
Particles >38µm		ASTM D7647	>40	2	6	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/14	▲ 23/19/14	▲ 23/19/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.48	0.47

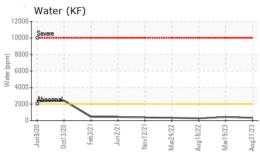


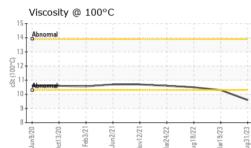
OIL ANALYSIS REPORT

Color

Bottom







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		59.5	60.0	59.9
Visc @ 100°C	cSt	ASTM D445		9.6	10.3	10.5
Viscosity Index (VI)	Scale	ASTM D2270		144	160	166
SAMPLE IMAGES		method	limit/base	current	history1	history2
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