

OIL ANALYSIS REPORT

Area KEMP QUARRIES / RIVER VALLEY ARKOMA Machine Id OHT102

Component Front Differential Fluid MOBIL MOBILUBE HD 80W90 (--- GAL)

DIAGNOSIS

Recommendation

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

📥 Wear

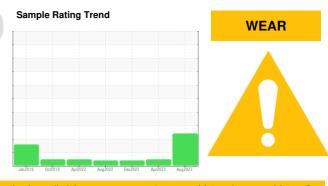
Bearing and/or bushing wear is indicated.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The condition of the oil is acceptable for the time in service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0083936	PCA0070400	PCA0070469
Sample Date		Client Info		22 Aug 2023	20 Apr 2023	09 Dec 2022
Machine Age	hrs	Client Info		29115	28531	27903
Oil Age	hrs	Client Info		29115	27903	27510
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	142	292	253
Chromium	ppm	ASTM D5185m	>10	<1	2	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	4
Lead	ppm	ASTM D5185m	>25	2	0	0
Copper	ppm	ASTM D5185m	>100	<u> </u>	89	47
Tin	ppm	ASTM D5185m	>10	5	3	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		89	213	212
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	14	14
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		4	3	<1
Calcium	ppm	ASTM D5185m		A 3430	18	23
Phosphorus	ppm	ASTM D5185m		928	1008	975
Zinc	ppm	ASTM D5185m		1076	19	20
Sulfur	ppm	ASTM D5185m		▲ 6645	21118	23992
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	18	9	12
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	1	0
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	A MODER
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 PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	136	190	138	138
6:00:55) Rev: 1						Submitted By:



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