

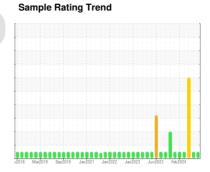
OIL ANALYSIS REPORT

Area OIL Machine Id

P-6150 (S/N WELL CLEAN UP PUMP)

Compone

MOBIL DTE OIL EXTRA HEAVY (20 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	MATION	mathad	limit/base	Olive ont	hiotomit	hiotomyO
	IATION	method	IIIIIIVDase		history1	history2
Sample Number		Client Info		HLC0003290	HLC0003273	HLC0003197
Sample Date		Client Info		01 Jun 2024	02 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	6	7	11
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	2
Titanium	ppm	ASTM D5185m	>3	<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>7	2	3	5
Lead	ppm	ASTM D5185m	>12	<1	2	3
Copper	ppm	ASTM D5185m	>30	20	22	▲ 32
Tin	ppm	ASTM D5185m	>9	1	2	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		506	583	773
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		97	108	143
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		367	414	501
Calcium	ppm	ASTM D5185m		1888	2174	2511
Phosphorus	ppm	ASTM D5185m		1107	1303	1587
Zinc	ppm	ASTM D5185m		1256	1444	1720
Sulfur	ppm	ASTM D5185m		4258	5122	5797
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	4	5	7
Sodium	ppm	ASTM D5185m		9	11	15
Potassium	ppm	ASTM D5185m	>20	1	3	5
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3089	4981	4167
Particles >6µm		ASTM D7647	>2500	109	98	201
Particles >14μm		ASTM D7647	>320	2	2	10
Particles >21µm		ASTM D7647	>80	0	1	2
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	19/14/9	19/14/9	19/15/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

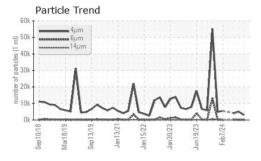
Acid Number (AN)

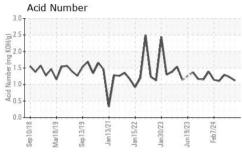
mg KOH/g ASTM D8045

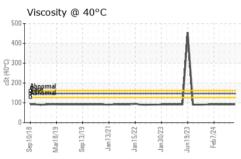
Contact/Location: PERRY NEEL - BPENOR

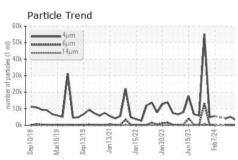


OIL ANALYSIS REPORT









VISUAL		method				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	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLIID DDODEDI	TIEC	mothod	limit/bass	ourropt	hioton/1	hiotory?

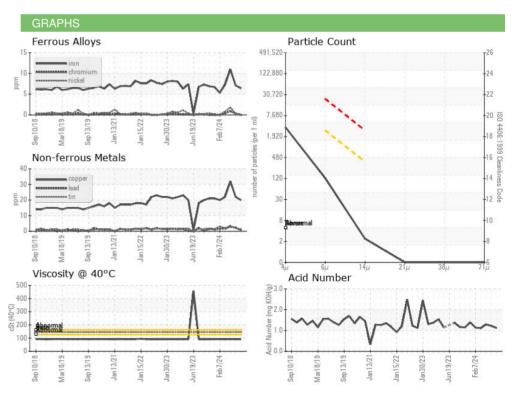
I LOID I HOI LIT	IILO	memou			riistory i	Tilotol y Z
Visc @ 40°C	cSt	ASTM D445	146	91.5	91.2	91.8

SAMPI	_E IV	1AGE	ES
C,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Color

Bottom









Certificate 12367

Laboratory Sample No.

Lab Number : 06205343 Unique Number : 11072804

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HLC0003290

Received **Tested** Diagnosed

: 10 Jun 2024 : 12 Jun 2024

: 12 Jun 2024 - Don Baldridge

Test Package : IND 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (907)659-5377 Contact/Location: PERRY NEEL - BPENOR

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