

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# **MANETEX CRANE TRUCK**

Component

**Hydraulic System** 

**HYRADULA 32 (240 LTR)** 

## DIAGNOSIS

### Recommendation

The 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 a light amount of silt (particulates < 14 microns in size) present in the oil.

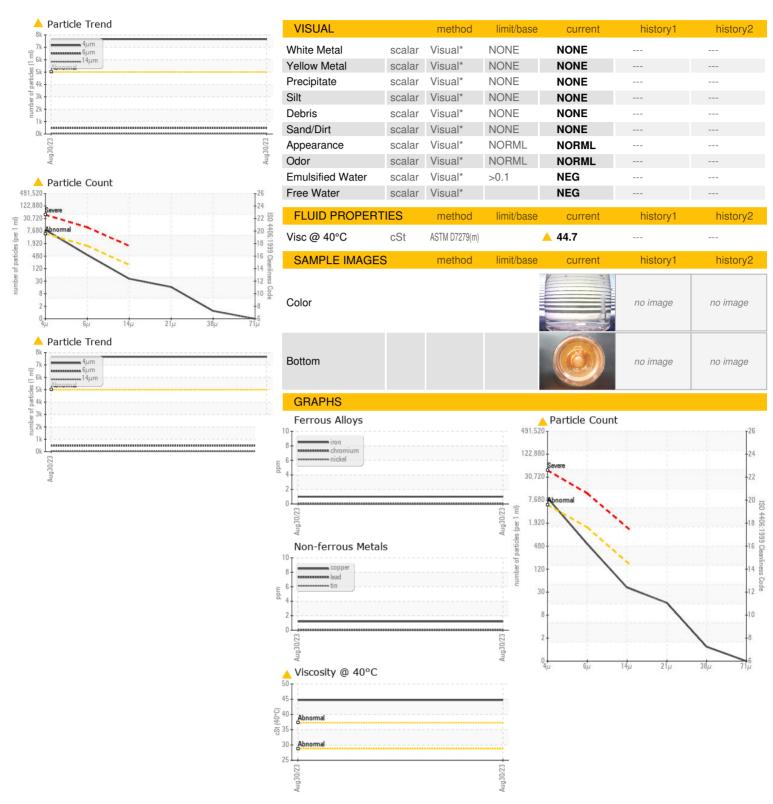
#### Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the oil is acceptable for the time in service.

			,	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		30 Aug 2023		
Machine Age	hrs	Client Info		400		
Oil Age	hrs	Client Info		400		
Oil Changed	1110	Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	1		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Fitanium	ppm	ASTM D5185(m)	710	0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	<1		
_ead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)		1		
Борреі Гіп	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>10	0		
/anadium		ASTM D5185(m)		0		
	ppm	ASTM D5185(m)		0		
Beryllium Cadmium	ppm	ASTM D5185(m)		0		
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	AOTAL DELOC()				
		ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)		0 3		
-				-		
Calcium	ppm	ASTM D5185(m)		3		
Calcium Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)		3 127		
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		3 127 544		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		3 127 544 661		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	3 127 544 661 1271		
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base >20	3 127 544 661 1271 <1		
Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185(m)  method		3 127 544 661 1271 <1	   history1	    history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  method  ASTM D5185(m)		3 127 544 661 1271 <1 current	   history1	   history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  METHOD  METHOD  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	>20	3 127 544 661 1271 <1 current <1	   history1	   history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	>20	3 127 544 661 1271 <1 current <1 <1 <1	   history1	   history2
Calcium Phosphorus Zinc Gulfur Lithium CONTAMINANTS Gilicon Godium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  METHOD  METHOD  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	>20 >20 limit/base	3 127 544 661 1271 <1 current <1 <1 <1 current	history1 history1	history2 history2
Calcium Phosphorus Zinc Gulfur Lithium CONTAMINANTS Gilicon Godium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  METHOD  ASTM D5185(m)	>20 >20   limit/base   >5000	3 127 544 661 1271 <1 current <1 <1 <1 current <7654	history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  ASTM D5185(m)  METHOD  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D7647  ASTM D7647  ASTM D7647	>20 >20 limit/base >5000 >1300 >160	3 127 544 661 1271 <1 current <1 <1 <1 current  41 <41 <41 <41 <41 <41 <41 <41 <41 <41	history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  ASTM D5185(m)  METHOD  ASTM D5185(m)	>20   >20   limit/base   >5000   >1300   >160   >40	3 127 544 661 1271 <1 current <1 <1 <1 current  41 <41 <41 <41 <41 35	history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  METHOD  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647	>20 	3 127 544 661 1271 <1 current <1 <1 <1 current  41 <1 41 41 35 14	history1 history1	history2 history2



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: PP : 02579708 : 5632768 Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 31 Aug 2023 Diagnosed

: 01 Sep 2023 : Kevin Marson Diagnostician

**HIGHLAND FUELS** 92 MAIN ST. WEST, BOX 593 DUNDALK, ON CA NOC 1B0

Contact: JAMES LESAGE

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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